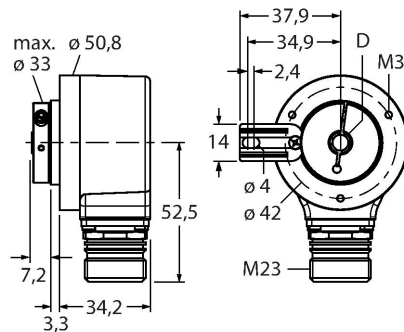


RI-12I10T-2B1024-12M23

Incremental Hollow Shaft Rotary Encoder

Industrial Line



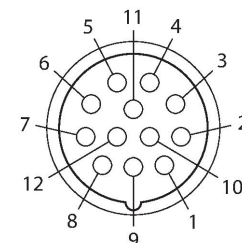
Features

- Flange with torque stop, Ø 50.8 mm
- Hollow shaft, Ø 10 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on shaft side
- -40...+85 °C
- Max. 12000 rpm (continuous operation 6000)
- 10...30 VDC
- M23 male, 12-pin
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses per revolution

Technical data

Type	RI-12I10T-2B1024-12M23
ID	200013881
Measuring principle	Optical
General data	
Max. rotational speed	12,000 rpm
Moment of inertia of the rotor	$6 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution, incremental	1024 ppr
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	$\leq 100 \text{ mA}$
Output current	$\leq 30 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. $U_B - 1 \text{ V}$
Signal level low	max. 0.5 V
Output function	12-wire, Push-Pull/HTL, with inverted signals
Mechanical data	
Flange type	Flange with mounting element
Flange diameter	Ø 50.8 mm

1	B inv.	
2	U_B sens	+
3	0	-
4	0 inv.	-
5	A	
6	A inv.	
7	n.c.	
8	B	
9	n.c.	
10	GND	
11	0V sens	
12	U_B	+
PH	shield	



Technical data

Shaft Type	Hollow shaft
Shaft diameter D (mm)	10
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector
	M23, 12-pole
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s ² , 6 ms
Protection class	IP67
Protection class shaft	IP65